

ELECTRONIC POWER SOURCE VOLTAGE REGULATOR WITH UPS FUNCTION

ABSTRACT OF THE DISCLOSURE

An electronic AC power source voltage regulator with the UPS function is provided. The proposed electronic power source voltage regulator includes: an input port, an output, a switch set electrically connected between the input port and an AC power source, a capacitor, an inductor, and an electrical energy converter including an electrical energy storage device, a first output terminal, and a second output terminal. The electrical energy converter of the proposed electronic power source voltage regulator transfers an electrical energy of the electrical energy storage device into the output voltage to be output so as to stabilize the output voltage when a significant voltage difference of the AC power source occurs.